

Model # AWLC3025

User's Manual

Ver. 1A

REGULATORY STATEMENTS

FCC Certification

The United States Federal Communication Commission (FCC) and the Canadian Department of Communications have established certain rules governing the use of electronic equipment.

Part15, Class B

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interface, and
- 2) This device must accept any interface received, including interface that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

CAUTION:

- To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
- 2) This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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INTRODUCTION

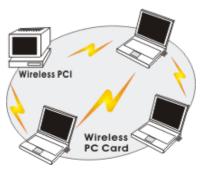
The **802.11g Wireless LAN Card** is a device that allows you to connect your computer to a Wireless Local Area Network (WLAN). A wireless LAN allows your system to use wireless Radio Frequency (RF) technology to transmit and receive data without having to physically attach to the network. The wireless protocols that come with this product ensure data security and isolation from interference generated by other radio frequencies.

This card also allows you to take full advantage of your computer's mobility with access to real-time information and online services anytime and anywhere. In addition, this device eliminates the hassle of pulling cable through walls and under furniture. It even allows you to place your system in locations where cabling is impossible. Modifying and augmenting networks has never been so easy.

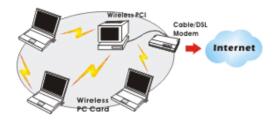
Wireless Network Options

The Peer-to-Peer Network (a.k.a. Ad-Hoc)

This network installation lets you set a small wireless workgroup easily and quickly. Equipped with wireless PC Cards or wireless PCI cards, you can share files and printers between each PC and laptop.

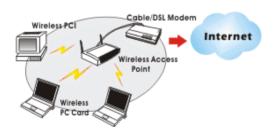


You can also use one computer as an Internet Server to connect to a wired global network and share files and information with other computers via a wireless LAN.



The Access Point Network (a.k.a. Infrastructure)

The network installation allows you to share files, printers, and Internet access much more conveniently. With the Wireless LAN Card, you can connect wirelessly to a wired global network via an access point or wireless router.



LED Indicators For Wireless CardBus Card

Power Indicator: (Orange LED)

This LED will illuminate when the driver is installed.

Act Indicator: (Green LED)

This LED flickers when the cardbus is transmitting/receiving data.

INSTALLATION

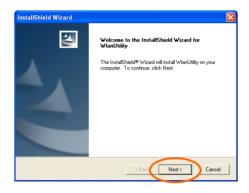
Caution: Do not insert the Cardbus adapter into your computer until the procedures in "Install the Driver & Utility" have been performed.

Install the Driver & Utility

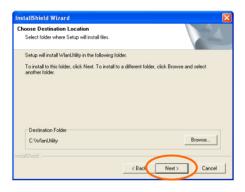
- 1. Exit all Windows programs. Insert the CD into the CD drive of your computer.
 - If the setup menu does not appear automatically, go to your CD drive (e.g. drive D) and double-click on **Setup.exe.**
- At the setup menu, click Install Driver & Utility to start the installation.



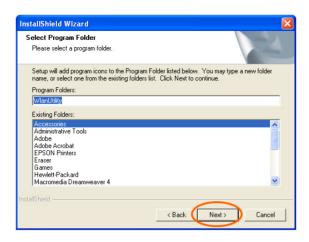
3. When the Welcome screen appears, click **Next** to continue.



4. The **Choose Destination Location** screen will show you the default destination chosen by the utility. Click **Next** to continue.



Follow the instruction to select the program folder. Click Next to continue.



- 6. Remove the Installation CD from the CD drive.
- 7. Restart your computer.



Install the device

Note: Make sure the procedures in "**Install the Driver & Utility**" have been performed. In most cases, Windows will automatically install the driver after the computer is restarted, if the Found New Hardware Wizard appears, follow the steps below.

1 Insert the Cardbus into the cardbus slot

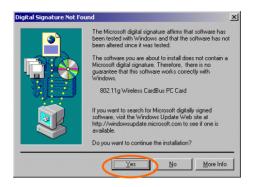
Note for Windows 98 & ME users:

Before installing the device, make sure you have your Windows 98 or ME CD at hand. You may be asked to insert the Windows 98 or ME CD in order to install specific files.



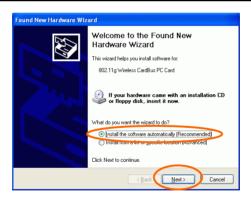
Note for Windows 2000 users:

During the installation, when the "Digital Signature Not Found" screen appears, click "Yes" to continue.



Note for Windows XP users:

 Select Install the software automatically (Recommended) and click Next.



3. Click Continue Anyway at the Windows Logo testing screen.



4. Click Finish to complete the installation.



Verify Device Installation

To verify that the driver has been properly installed in your computer, go to Start → Settings → Control Panel → System (→ Hardware) → Device Manager. Expand the Network adapters item. If the 802.11g Wireless CardBus PC Card is listed, it means that your device is properly installed and enabled.



CONFIGURATION

After successfully installing the driver and utility, a **Utility Icon** will appear on the desktop.



If the Utility Icon doesn't appear automatically, go to Start → (All) Programs → WlanUtility → Wireless LAN Utility.

Accessing the Configuration Utility

The Configuration Utility is accessed by double-clicking on the **Wireless LAN Utility Icon** on the Desktop.

All settings are categorized into 5 Tabs:

Main Tab

Advanced Tab

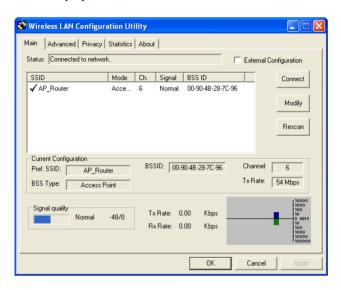
Privacy Tab

Statistics Tab

About Tab

Main Tab

The Main tab displays the current status of the Wireless Network Adapter.



Item	Description
External Configuration	Uncheck the box to use this utility to configure the wireless network adapter. Or check the box to use Windows XP's Wireless Zero Configuration Utility.
SSID	The SSID is the Network ID shared among all devices in your wireless network. The name must be identical for all devices to connect to the same network. No encryption Encryption enabled For TI-Based WLAN For TI-Based WLAN with encryption

Item	Description
Mode	Displays the type of connection: Access Point or Peer-to-Peer.
Ch	Displays the channel that is currently in use.
Signal	Displays the signal strength of the connection between the Wireless Network Adapter and the Access Point it connects to.
BBS ID	Displays the MAC address of the target device.

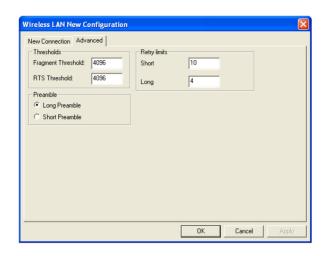
Current Configuration

Pref. SSID	Shows the current SSID the wireless network
	adapter is connected to.
BSS Type	Shows the current connection type: Access
. –	Point or Peer to Peer.
BSSID	The MAC address of the device that the
	wireless network adapter is connected to.
Channel	Shows the current channel.
Tx Rate	Shows the current transfer rate.
Signal Quality	Shows the signal strength of the connection
	between the wireless network adapter and the
	device it connects to.

Connect button	Highlight one of the devices from the device
	list and press the Connect button to access it.
Modify button	There will be two tabs for you to modify, see
	the detailed information on next page.
Rescan button	Searches all available networks. Clicking on
	this button, the wireless adapter will start to
	rescan and list all available devices.



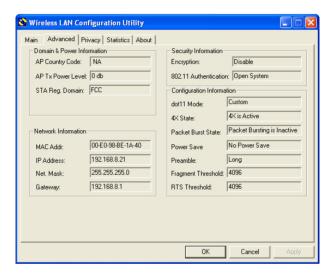
Preferred SSID	Type in the SSID of the target device you want to connect to.
BSS Type	You can select the connection type: Peer-to-Peer , Access Point or Auto Mode .
Tx Rate	You can select the data rate or set to auto mode from the pull-down menu.
Channel	Select the channel you want to use.
Power Mode	No Power Save: the adapter will be in full active mode.
	Max Power Save: the power save mode will be enabled.
4x Config	Select to disable or enable the TI-Based 4x function.
Tx Power Level	Select the transmit power level: Low Power, Medium-Low Power, Medium Power, Medium-High Power, High Power. The power level function is used to extend the communication distance.
Mode	Select from 802.11b , 802.11b+ , 802.11g , or B&G Mode (If you choose this option the wireless network adapter will automatically select the suitable standard).
Profile	Enter the profile name and click the Save button to save your configuration, To open the profiles you saved, select the profile from the pull-down menu and then click the Load button.



Fragment Threshold	You can fragment the MSDU or MMPDU into smaller sizes to increasing the reliability of frame transmission. (The maximum value of 4096 means no fragmentation is needed). The throughput performance will decrease however.
RTS Threshold	This value should remain at its default setting of 4096 . Should you encounter inconsistent data flow, only minor modification of this value is recommended.
Preamble	A preamble is a signal used in wireless environment to synchronize the transmission timing, including Synchronization and Start frame delimiter. (Note : If you want to change the Preamble type to Long or Short , please check the settings of your access point or wireless router.
Retry limits	You can set the number of retries if no acknowledgement appears from the receiving station.

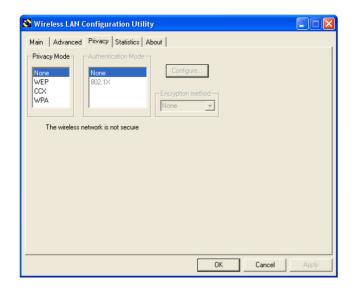
Advanced Tab

The **Advanced** tab displays the current status of the Wireless Network Adapter.



Privacy Tab

Use the **Privacy** Tab to configure your encryption settings. **WEP** encryption or WPA-PSK can be used to ensure the security of your wireless network. Highlight WEP and click on the **Configure** button.



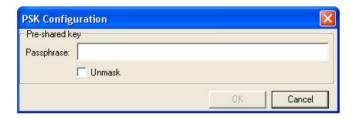
Privacy Mode Choose either WEP or WPA mode and click Configure: (Note: CCX is not available for this adapter). WEP is a data security mechanism based on a 40 Bit (a.k.a. 64 Bit)/128 Bit/256 Bit shared key algorithm. WPA is more secure than WEP, and should be used if possible.



WEP Configuration

Authentication	The authentication type defines ID verification and access privileges of roaming wireless network cards. You may choose from Open System , Shared Key ,
	or Auto Switch.
	Open System: If your access point/wireless router is using " Open System " authentication, then the wireless adapter will need to be set to the same authentication type.
	Shared Key : Shared Key is when both the sender and the recipient share a secret key.
	Auto Switch: Select Auto Switch for the adapter to automatically select the appropriate authentication mode.
Encryption 1-4	WEP (Wired Equivalent Privacy) encryption can be used to ensure the security of your wireless network. Select one Key and Key Size then enter the appropriate key value in the Encryption field. Note: You must use the same Key #, Key Size, and Encryption Key on both the host and destination devices in order to establish a connection. KEY1 ~ KEY 4: You can specify up to 4 different

	keys, but only one can be used at a time.
	Encryption : Enter the key value in this field.
	A key of 10 hexadecimal characters (0-9, A-F) is required if a 40-bit (a.k.a. 64-bit) Key Size is selected.
	A key of 26 hexadecimal characters (0-9, A-F) is required if a 128-bit Key Size is selected.
	A key of 58 hexadecimal characters (0-9, A-F) is required if a 256-bit Key Size is selected.
Key size	Select from 40-bit (a.k.a. 64-bit), 128-bit or 256-bit.



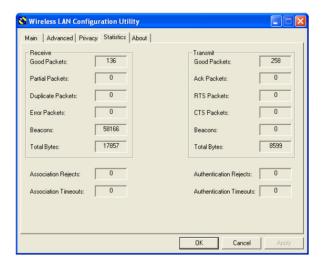
WPA-PSK Configuration

If your wireless router/access point supports WPA, you can choose to enable WPA

- 1. Select WPA from the Privacy tab, highlight Preshared Key and click Configure.
- 2. Click on the Passphrase field and enter a passphrase for the WPA key. (Note: minimum passphrase key must be 8 characters and must match the WPA key on your wireless router/access point).
- 3. You can check on the Unmask check box to see the passphrase you've entered.
- 4. Click OK to submit the passphrase.

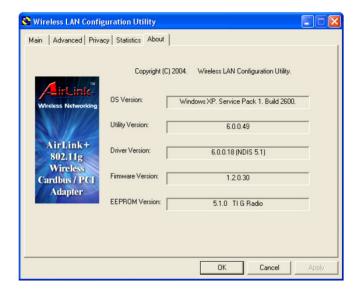
Statistics Tab

The Statistics Tab displays any available statistics including Receive packets, Transmit packets, Association reject packets, Association timeout packets, Authentication reject packets, and Authentication timeout packets.



About Tab

Click on the **About** tab to view basic version information about the **OS Version**, **Utility Version**, **Driver Version**, **Firmware Version** and **EEPROM Version**.



UNINSTALLATION

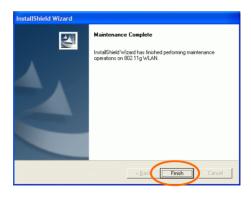
If you need to uninstall the driver and utility, follow the steps below.

(When you uninstall the utility, the driver will be uninstalled as well.)

- 1. Go to Start → (All) Programs → WlanUtility → Uninstall Wireless LAN Utility.
- Click **OK** to continue.



3. Select **Yes, I want to restart my computer now**, and then click **Finish** to complete the uninstalled procedure.



Appendix

Technical Support

E-mail: support@airlinkplus.com

Toll Free: 1-888-746-3238

Web Site: www.airlinkplus.com